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WHAT IS CLAIMED IS:

1. A thermal interface comprising:

a carrier having opposed surfaces;

a layer of a phase-change material on one of the surfaces of the carrier; and

a layer of a pliable, thermal compound on the other of the surfaces of the carrier.

 The thermal interface of claim 1 in which: the carrier comprises a thermally-conductive material.

The thermal interface of claim 2 in which:
 the thermally-conductive material comprises a metal foil.

4. The thermal interface of claim 2 in which:

the thermally-conductive material comprises a thin, thermally-conductive plastic sheet. $% \begin{center} \beg$

5. The thermal interface of claim 2 in which:

the carrier comprises a material selected from the group consisting of copper, gold, silver, aluminum and plastic.

The thermal interface of claim 1 in which:

the phase-change material comprises a paraffin-base material.

7. The thermal interface of claim 1 in which:

the pliable, thermal compound comprises a thermally conductive grease.

8. The thermal interface of claim 7 in which:

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the thermally-conductive grease comprises a silicone-type grease.

- The thermal interface of claim 1 in which: the pliable, thermal compound comprises a thermally-conductive paste.
- 10. A thermal interface product comprising: a carrier having opposed surfaces; a layer of a phase-change material on one of the surfaces of the carrier; a layer of a pliable, thermal compound on the other of the
- surfaces of the carrier; and
- a removable protective covering overlying the pliable, thermal compound layer.
- The thermal interface product of claim 10 in which: the removable protective covering comprises a peelable backing.
- The thermal interface product of claim 10 in which: the removable protective covering comprises a cap removably attached to the carrier.
 - 13. The thermal interface product of claim 10 in which: the carrier comprises a thermally-conductive material.
 - 14. The thermal interface product of claim 13 in which: the thermally-conductive material comprises a metal foil.
 - 15. The thermal interface product of claim 13 in which:

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the thermally-conductive material comprises a thin, thermally-conductive plastic sheet.

- 16. The thermal interface product of claim 13 in which: the carrier comprises a material selected from the group consisting of copper, gold, silver, aluminum and plastic.
 - 17. The thermal interface product of claim 10 in which: the phase-change material comprises a paraffin-base material.
- 18. The thermal interface product of claim 10 in which: the pliable, thermal compound comprises a thermally-conductive grease.
- The thermal interface product of claim 18 in which: the thermally-conductive grease comprises a silicone-type grease.
- The thermal interface product of claim 10 in which: the pliable, thermal compound comprises a thermally-conductive paste.
 - 21. The thermal interface product of claim 11 in which: the peelable backing comprises a release liner.
 - 22. An assembly comprising:

a substrate:

an electronic component mounted on said substrate;

a heat sink; and

a thermal interface interposed between a surface of said electronic component and a surface of said heat sink for transferring heat

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generated by said electronic component to said heat sink, said surfaces of said heat sink and said electronic component being in confronting relationship, said thermal interface comprising:

- a carrier having opposed surfaces;
- a layer of a phase-change material interposed between one of the surfaces of the carrier and one of said confronting surfaces of said heat sink and said electronic component; and
- a layer of a pliable, thermal compound interposed between the other surface of the carrier and the other one of said confronting surfaces.
- 23. The assembly of claim 22 in which: the carrier comprises a thermally-conductive material.
- 24. The assembly of claim 23 in which: the thermally-conductive material comprises a metal foil.
- 25. The assembly of claim 23 in which:
 the thermally-conductive material comprises a thermallyconductive plastic sheet.
- 26. The assembly of claim 22 in which:
 the carrier comprises a material selected from the group consisting of copper, gold, silver, aluminum and thermally-conductive plastic.
 - 27. The assembly of claim 22 in which: the phase-change material comprises a paraffin-base material.
- 28. The assembly of claim 22 in which: the pliable, thermal compound comprises a thermally-conductive grease.

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- 29. The assembly of claim 28 in which: the thermally-conductive grease comprises a silicone-type grease.
- The assembly of claim 22 in which: the pliable, thermal compound comprises a thermally-conductive paste.